

10/070532

Rec'd PCT/PTO 07 MAR 2002

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re National Stage Application of: SOPPET et al.

Application Serial No.: Unassigned  
(International Application No.: PCT/US00/24518)

Art Unit: Unassigned

Filed: Herewith  
(International Filing Date: September 10, 2000)

Examiner: Unassigned

For: Human Neuropeptide Receptor

Attorney Docket No.: PF168P3

**STATEMENT UNDER 37 C.F.R. 1.821(f)**

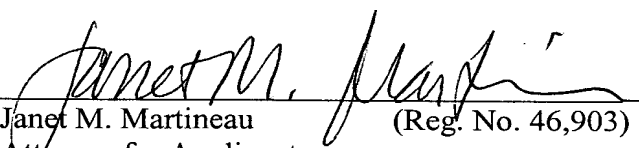
Commissioner For Patents  
Washington, D.C. 20231

Sir:

Pursuant to 37 C.F.R. § 1.821(f), Applicants hereby certify that the sequence listing information recorded in computer readable form and submitted herewith is identical to the written (on paper) Sequence Listing submitted herewith.

Respectfully submitted,

Dated: March 7, 2002

  
Janet M. Martineau  
Attorney for Applicants

(Reg. No. 46,903)

**Human Genome Sciences, Inc.**  
9410 Key West Avenue  
Rockville, Maryland 20850  
Telephone: 301-315-2723

Enclosures  
JMM/SA/lcc



PCT10

ENTERED

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/070,532

DATE: 03/25/2002

TIME: 09:57:18

Input Set : A:\168P3-SL.txt

Output Set: N:\CRF3\03252002\J070532.raw

3 <110> APPLICANT: Soppet et al.  
 5 <120> TITLE OF INVENTION: Human Neuropeptide Receptor  
 7 <130> FILE REFERENCE: PF168P3  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/070,532  
 C--> 9 <141> CURRENT FILING DATE: 2002-03-07  
 9 <150> PRIOR APPLICATION NUMBER: 09/393,696  
 10 <151> PRIOR FILING DATE: 1999-09-10  
 12 <160> NUMBER OF SEQ ID NOS: 23  
 14 <170> SOFTWARE: PatentIn Ver. 2.0  
 16 <210> SEQ ID NO: 1  
 17 <211> LENGTH: 1278  
 18 <212> TYPE: DNA  
 19 <213> ORGANISM: Homo sapiens  
 21 <220> FEATURE:  
 22 <221> NAME/KEY: CDS  
 23 <222> LOCATION: (1)..(1278)  
 25 <400> SEQUENCE: 1  
 26 atg gag ccc tca gcc acc cca ggg gcc cag atg ggg gtc ccc cct ggc 48  
 27 Met Glu Pro Ser Ala Thr Pro Gly Ala Gln Met Gly Val Pro Pro Gly  
 28 1 5 10 15  
 30 agc aga gag ccg tcc cct gtg cct cca gac tat gaa gat gag ttt ctc 96  
 31 Ser Arg Glu Pro Ser Pro Val Pro Pro Asp Tyr Glu Asp Glu Phe Leu  
 32 20 25 30  
 34 cgc tat ctg tgg cgt gat tat ctg tac cca aaa cag tat gag tgg gtc 144  
 35 Arg Tyr Leu Trp Arg Asp Tyr Leu Tyr Pro Lys Gln Tyr Glu Trp Val  
 36 35 40 45  
 38 ctc atc gca gcc tat gtg gct gtg ttc gtc gtg gcc ctg gtg ggc aac 192  
 39 Leu Ile Ala Ala Tyr Val Ala Val Phe Val Val Ala Leu Val Gly Asn  
 40 50 55 60  
 42 acg ctg gtc tgc ctg gcc gtg tgg cgg aac cac cac atg agg aca gtc 240  
 43 Thr Leu Val Cys Leu Ala Val Trp Arg Asn His His Met Arg Thr Val  
 44 65 70 75 80  
 46 acc aac tac ttc att gtc aac ctg tcc ctg gct gac gtt ctg gtg act 288  
 47 Thr Asn Tyr Phe Ile Val Asn Leu Ser Leu Ala Asp Val Leu Val Thr  
 48 85 90 95  
 50 gct atc tgc ctg ccg gcc agc ctg ctg gtg gac atc act gag tcc tgg 336  
 51 Ala Ile Cys Leu Pro Ala Ser Leu Leu Val Asp Ile Thr Glu Ser Trp  
 52 100 105 110  
 54 ctg ttc ggc cat gcc ctc tgc aag gtc atc ccc tat cta cag gct gtg 384  
 55 Leu Phe Gly His Ala Leu Cys Lys Val Ile Pro Tyr Leu Gln Ala Val  
 56 115 120 125  
 58 tcc gtg tca gtg gca gtg cta act ctc agc ttc atc gcc ctg gac cgc 432  
 59 Ser Val Ser Val Ala Val Leu Thr Leu Ser Phe Ile Ala Leu Asp Arg

## RAW SEQUENCE LISTING

DATE: 03/25/2002

PATENT APPLICATION: US/10/070,532

TIME: 09:57:18

Input Set : A:\168P3-SL.txt

Output Set: N:\CRF3\03252002\J070532.raw

60	130	135	140	
62	tgg tat gcc atc tgc cac cca cta ttg ttc aag agc aca gcc cgg cgg	480		
63	Trp Tyr Ala Ile Cys His Pro Leu Leu Phe Lys Ser Thr Ala Arg Arg			
64	145 150 155 160			
66	gcc cgt gcc tcc atc ctg ggc atc tgg gct gtg tgc ctg gcc atc atg	528		
67	Ala Arg Gly Ser Ile Leu Gly Ile Trp Ala Val Ser Leu Ala Ile Met			
68	165 170 175			
70	gtg ccc cag gct gca gtc atg gaa tgc agc agt gtg ctg cct gag cta	576		
71	Val Pro Gln Ala Ala Val Met Glu Cys Ser Ser Val Leu Pro Glu Leu			
72	180 185 190			
74	gcc aac cgc aca cgg ctc ttc tca gtc tgt gat gaa cgc tgg gca gat	624		
75	Ala Asn Arg Thr Arg Leu Phe Ser Val Cys Asp Glu Arg Trp Ala Asp			
76	195 200 205			
78	gac ctc tat ccc aag atc tac cac agt tgc ttc ttt att gtc acc tac	672		
79	Asp Leu Tyr Pro Lys Ile Tyr His Ser Cys Phe Phe Ile Val Thr Tyr			
80	210 215 220			
82	ctg gcc cca ctg ggc ctc atg gcc atg gcc tat ttc cag ata ttc cgc	720		
83	Leu Ala Pro Leu Gly Leu Met Ala Met Ala Tyr Phe Gln Ile Phe Arg			
84	225 230 235 240			
86	aag ctc tgg ggc cgc cag atc ccc ggc acc acc tca gca ctg gtg cgg	768		
87	Lys Leu Trp Gly Arg Gln Ile Pro Gly Thr Thr Ser Ala Leu Val Arg			
88	245 250 255			
90	aac tgg aag cgc ccc tca gac cag ctg ggg gac ctg gag cag ggc ctg	816		
91	Asn Trp Lys Arg Pro Ser Asp Gln Leu Gly Asp Leu Glu Gln Gly Leu			
92	260 265 270			
94	agt gga gag ccc cag ccc cgg gcc cgc gcc ttc ctg gct gaa gtg aag	864		
95	Ser Gly Glu Pro Gln Pro Arg Ala Arg Ala Phe Leu Ala Glu Val Lys			
96	275 280 285			
98	cag atg cgt gca cgg agg aag aca gcc aag atg ctg atg gtg gtg ctg	912		
99	Gln Met Arg Ala Arg Arg Lys Thr Ala Lys Met Leu Met Val Val Leu			
100	290 295 300			
102	ctg gtc ttc gcc ctc tgc tac ctg ccc atc agc gtc ctc aat gtc ctt	960		
103	Leu Val Phe Ala Leu Cys Tyr Leu Pro Ile Ser Val Leu Asn Val Leu			
104	305 310 315 320			
106	aag agg gtg ttc ggg atg ttc cgc caa gcc agt gac cgc gaa gct gtc	1008		
107	Lys Arg Val Phe Gly Met Phe Arg Gln Ala Ser Asp Arg Glu Ala Val			
108	325 330 335			
110	tac gcc tgc ttc acc ttc tcc cac tgg ctg gtg tac gcc aac agc gct	1056		
111	Tyr Ala Cys Phe Thr Phe Ser His Trp Leu Val Tyr Ala Asn Ser Ala			
112	340 345 350			
114	gcc aac ccc atc atc tac aac ttc ctc agt ggc aaa ttc cgg gag cag	1104		
115	Ala Asn Pro Ile Ile Tyr Asn Phe Leu Ser Gly Lys Phe Arg Glu Gln			
116	355 360 365			
118	ttt aag gct gcc ttc tcc tgc tgc ctg cct ggc ctg ggt ccc tgc ggc	1152		
119	Phe Lys Ala Ala Phe Ser Cys Cys Leu Pro Gly Leu Gly Pro Cys Gly			
120	370 375 380			
122	tct ctg aag gcc cct agt ccc cgc tcc tct gcc agc cac aag tcc ttg	1200		
123	Ser Leu Lys Ala Pro Ser Pro Arg Ser Ser Ala Ser His Lys Ser Leu			
124	385 390 395 400			

## RAW SEQUENCE LISTING

DATE: 03/25/2002

PATENT APPLICATION: US/10/070,532

TIME: 09:57:18

Input Set : A:\168P3-SL.txt

Output Set: N:\CRF3\03252002\J070532.raw

```

126 tcc ttg cag agc cga tgc tcc gtc tcc aaa atc tct gag cat gtg gtg      1248
127 Ser Leu Gln Ser Arg Cys Ser Val Ser Lys Ile Ser Glu His Val Val
128              405              410              415
130 ctc acc agc gtc acc aca gtg ctg ccc tga      1278
131 Leu Thr Ser Val Thr Thr Val Leu Pro
132              420              425
135 <210> SEQ ID NO: 2
136 <211> LENGTH: 425
137 <212> TYPE: PRT
138 <213> ORGANISM: Homo sapiens
140 <400> SEQUENCE: 2
141 Met Glu Pro Ser Ala Thr Pro Gly Ala Gln Met Gly Val Pro Pro Gly
142 1              5              10              15
143 Ser Arg Glu Pro Ser Pro Val Pro Pro Asp Tyr Glu Asp Glu Phe Leu
144              20              25              30
145 Arg Tyr Leu Trp Arg Asp Tyr Leu Tyr Pro Lys Gln Tyr Glu Trp Val
146              35              40              45
147 Leu Ile Ala Ala Tyr Val Ala Val Phe Val Val Ala Leu Val Gly Asn
148              50              55              60
149 Thr Leu Val Cys Leu Ala Val Trp Arg Asn His His Met Arg Thr Val
150 65              70              75              80
151 Thr Asn Tyr Phe Ile Val Asn Leu Ser Leu Ala Asp Val Leu Val Thr
152              85              90              95
153 Ala Ile Cys Leu Pro Ala Ser Leu Leu Val Asp Ile Thr Glu Ser Trp
154              100              105              110
155 Leu Phe Gly His Ala Leu Cys Lys Val Ile Pro Tyr Leu Gln Ala Val
156              115              120              125
157 Ser Val Ser Val Ala Val Leu Thr Leu Ser Phe Ile Ala Leu Asp Arg
158              130              135              140
159 Trp Tyr Ala Ile Cys His Pro Leu Leu Phe Lys Ser Thr Ala Arg Arg
160 145              150              155              160
161 Ala Arg Gly Ser Ile Leu Gly Ile Trp Ala Val Ser Leu Ala Ile Met
162              165              170              175
163 Val Pro Gln Ala Ala Val Met Glu Cys Ser Ser Val Leu Pro Glu Leu
164              180              185              190
165 Ala Asn Arg Thr Arg Leu Phe Ser Val Cys Asp Glu Arg Trp Ala Asp
166              195              200              205
167 Asp Leu Tyr Pro Lys Ile Tyr His Ser Cys Phe Phe Ile Val Thr Tyr
168              210              215              220
169 Leu Ala Pro Leu Gly Leu Met Ala Met Ala Tyr Phe Gln Ile Phe Arg
170 225              230              235              240
171 Lys Leu Trp Gly Arg Gln Ile Pro Gly Thr Thr Ser Ala Leu Val Arg
172              245              250              255
173 Asn Trp Lys Arg Pro Ser Asp Gln Leu Gly Asp Leu Glu Gln Gly Leu
174              260              265              270
175 Ser Gly Glu Pro Gln Pro Arg Ala Arg Ala Phe Leu Ala Glu Val Lys
176              275              280              285
177 Gln Met Arg Ala Arg Arg Lys Thr Ala Lys Met Leu Met Val Val Leu
178              290              295              300

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/070,532

DATE: 03/25/2002

TIME: 09:57:18

Input Set : A:\168P3-SL.txt

Output Set: N:\CRF3\03252002\J070532.raw

```

179 Leu Val Phe Ala Leu Cys Tyr Leu Pro Ile Ser Val Leu Asn Val Leu
180 305 310 315 320
181 Lys Arg Val Phe Gly Met Phe Arg Gln Ala Ser Asp Arg Glu Ala Val
182 325 330 335
183 Tyr Ala Cys Phe Thr Phe Ser His Trp Leu Val Tyr Ala Asn Ser Ala
184 340 345 350
185 Ala Asn Pro Ile Ile Tyr Asn Phe Leu Ser Gly Lys Phe Arg Glu Gln
186 355 360 365
187 Phe Lys Ala Ala Phe Ser Cys Cys Leu Pro Gly Leu Gly Pro Cys Gly
188 370 375 380
189 Ser Leu Lys Ala Pro Ser Pro Arg Ser Ser Ala Ser His Lys Ser Leu
190 385 390 395 400
191 Ser Leu Gln Ser Arg Cys Ser Val Ser Lys Ile Ser Glu His Val Val
192 405 410 415
193 Leu Thr Ser Val Thr Thr Val Leu Pro
194 420 425
197 <210> SEQ ID NO: 3
198 <211> LENGTH: 1110
199 <212> TYPE: DNA
200 <213> ORGANISM: Homo sapiens
202 <220> FEATURE:
203 <221> NAME/KEY: CDS
204 <222> LOCATION: (1)..(1110)
206 <400> SEQUENCE: 3
207 atg gag ccc tca gcc acc cca ggg gcc cag atg ggg gtc ccc cct ggc 48
208 Met Glu Pro Ser Ala Thr Pro Gly Ala Gln Met Gly Val Pro Pro Gly
209 1 5 10 15
211 agc aga gag ccg tcc cct gtg cct cca gac tat gaa gat gag ttt ctc 96
212 Ser Arg Glu Pro Ser Pro Val Pro Pro Asp Tyr Glu Asp Glu Phe Leu
213 20 25 30
215 cgc tat ctg tgg cgt gat tat ctg tac cca aaa cag tat gag tgg gtc 144
216 Arg Tyr Leu Trp Arg Asp Tyr Leu Tyr Pro Lys Gln Tyr Glu Trp Val
217 35 40 45
219 ctc atc gca gcc tat gtg gct gtg ttc gtc gtg gcc ctg gtg ggc aac 192
220 Leu Ile Ala Ala Tyr Val Ala Val Phe Val Val Ala Leu Val Gly Asn
221 50 55 60
223 acg ctg gtc tgc ctg gcc gtg tgg cgg aac cac cac atg agg aca gtc 240
224 Thr Leu Val Cys Leu Ala Val Trp Arg Asn His His Met Arg Thr Val
225 65 70 75 80
227 acc aac tac ttc att gtc aac ctg tcc ctg gct gac gtt ctg gtg act 288
228 Thr Asn Tyr Phe Ile Val Asn Leu Ser Leu Ala Asp Val Leu Val Thr
229 85 90 95
231 gct atc tgc ctg ccg gcc agc ctg ctg gtg gac atc act gag tcc tgg 336
232 Ala Ile Cys Leu Pro Ala Ser Leu Leu Val Asp Ile Thr Glu Ser Trp
233 100 105 110
235 ctg ttc ggc cat gcc ctc tgc aag gtc atc ccc tat cta cag gct gtg 384
236 Leu Phe Gly His Ala Leu Cys Lys Val Ile Pro Tyr Leu Gln Ala Val
237 115 120 125
239 tcc gtg tca gtg gca gtg cta act ctc agc ttc atc ccc ctg gac cgc 432

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/070,532

DATE: 03/25/2002

TIME: 09:57:18

Input Set : A:\168P3-SL.txt

Output Set: N:\CRF3\03252002\J070532.raw

```

240 Ser Val Ser Val Ala Val Leu Thr Leu Ser Phe Ile Pro Leu Asp Arg
241      130      135      140
243 tgg tat gcc atc tgc cac cca cta ttg ttc aag agc aca gcc cgg cgg 480
244 Trp Tyr Ala Ile Cys His Pro Leu Leu Phe Lys Ser Thr Ala Arg Arg
245 145      150      155      160
247 gcc cgt ggc tcc atc ctg ggc atc tgg gct gtg tcg ctg gcc atc atg 528
248 Ala Arg Gly Ser Ile Leu Gly Ile Trp Ala Val Ser Leu Ala Ile Met
249      165      170      175
251 gtg ccc cag gct gca gtc atg caa tcc agc agt gtg ctg cct gag cta 576
252 Val Pro Gln Ala Ala Val Met Gln Ser Ser Ser Val Leu Pro Glu Leu
253      180      185      190
255 gcc aac cgc aca cgg ctc ttc tca ctc tgt cat gaa cgc tgg gca gat 624
256 Ala Asn Arg Thr Arg Leu Phe Ser Leu Cys His Glu Arg Trp Ala Asp
257      195      200      205
259 gac ctc tat ccc aag atc tac cac agt tgc ttc ttt att gtc acc tac 672
260 Asp Leu Tyr Pro Lys Ile Tyr His Ser Cys Phe Phe Ile Val Thr Tyr
261      210      215      220
263 ctg gcc cca ctg ggc ctc atg gcc atg gcc tat ttc cag ata ttc cgc 720
264 Leu Ala Pro Leu Gly Leu Met Ala Met Ala Tyr Phe Gln Ile Phe Arg
265 225      230      235      240
267 aag ctc tgg ggc cgc cag atc ccc ggc acc acc tca gca ctg gtg cgg 768
268 Lys Leu Trp Gly Arg Gln Ile Pro Gly Thr Thr Ser Ala Leu Val Arg
269      245      250      255
271 aac tgg aag cgc ccc tca gac cag ctg ggg gac ctg gag cag ggc ctg 816
272 Asn Trp Lys Arg Pro Ser Asp Gln Leu Gly Asp Leu Glu Gln Gly Leu
273      260      265      270
275 agt gga gag ccc cag ccc cgg ggc cgc gcc ttc ctg gct gaa gtg aag 864
276 Ser Gly Glu Pro Gln Pro Arg Gly Arg Ala Phe Leu Ala Glu Val Lys
277      275      280      285
279 cag atg cgt gca cgg agg aag aca gcc aag atg ctg atg gtg gtg ctg 912
280 Gln Met Arg Ala Arg Arg Lys Thr Ala Lys Met Leu Met Val Val Leu
281      290      295      300
283 ctg gtc ttc gcc ctc tgc tac ctc ccc atc agc gtc ctc aat gtc ctt 960
284 Leu Val Phe Ala Leu Cys Tyr Leu Pro Ile Ser Val Leu Asn Val Leu
285 305      310      315      320
287 aag agg gtg ttc ggg atg ttc cgc caa gcc agt gac cgc gaa gct gtc 1008
288 Lys Arg Val Phe Gly Met Phe Arg Gln Ala Ser Asp Arg Glu Ala Val
289      325      330      335
291 tac gcc tgc ttc acc ttc tcc cac tgg ctg gtg tac gcc aac agc gct 1056
292 Tyr Ala Cys Phe Thr Phe Ser His Trp Leu Val Tyr Ala Asn Ser Ala
293      340      345      350
295 gcc aac ccc atc atc tac aac ttc ctc agt ggc ctt ccc tgg agt ctg 1104
296 Ala Asn Pro Ile Ile Tyr Asn Phe Leu Ser Gly Leu Pro Trp Ser Leu
297      355      360      365
299 ctc taa 1110
300 Leu
303 <210> SEQ ID NO: 4
304 <211> LENGTH: 369
305 <212> TYPE: PRT

```

→ Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/070,532

DATE: 03/25/2002

TIME: 09:57:19

Input Set : A:\168P3-SL.txt

Output Set: N:\CRF3\03252002\J070532.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No  
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:666 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14